- 8. (Original) The method of claim 7, wherein said step of supporting said main reflector further comprises the step of supporting said platform adjacent an outer surface of an aircraft.
- 9. (Currently Amended) An antenna adapted to be rotated about an azimuthal axis of rotation in a manner which reduces the radius of an envelope within which said antenna moves during rotation of said antenna, said antenna comprising:

a curved main reflector having an axial center and outermost lateral side edges;

a platform for supporting said curved main reflector;

a motor for rotating said platform about said azimuthal axis; and

an encoder to track said azimuthal axis and provide feedback to said motor;

wherein said main reflector is fixedly supported relative to said platform such that said main reflector rotates about said rotaty-joint and azimuthal axis of rotation; and

wherein said azimuthal axis is maintained at <u>a constant position at an</u> outermost edge of [[of]] said main reflector at all times during azimuthal rotation of said main reflector.

- 10. (Cancelled)
- 11. (Cancelled)

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12. (Previously Presented) The antenna of claim 9, wherein:

said antenna includes a feedhorn spaced apart from said curved main reflector; and

said platform couples said feedhorn to a transmission line using said rotary joint.

- 13. (Original) The antenna of claim 12, wherein said transmission line comprises a coaxial cable.
- 14. (Previously Presented) The method of claim 1, further comprising the step of using an elevation motor to position said main reflector at a predetermined elevation angle.
- 15. (Previously Presented) The method of claim 4, further comprising the step of using an elevation motor to position said main reflector at a predetermined elevation angle.
- 16. (Previously Presented) The method of claim 7, wherein said step of supporting said main reflector further comprises the step of using an elevation motor to position said main reflector at a predetermined elevation angle.
- 17. (Previously Presented) The antenna of claim 9, further comprising an elevation motor for positioning said main reflector at a predetermined elevation angle.